

SENSOR ARRAY FOR ELECTROCHEMICAL CORROSION MONITORING

ABSTRACT OF THE DISCLOSURE

A sensor array for measuring localized corrosion based on electrochemical reactions is disclosed. The sensor has an array of electrodes that are made from the material of interest. The electrodes are electrically insulated from each other and arranged so that a small area of the electrode contacts a corrosive environment. The voltage outputs across the electrodes connected to the electrodes are measured and used as the signals to indicate localized corrosion.